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### 1 [Congestion-dependent pricing of network services](#)

Ioannis Ch. Paschalidis, John N. Tsitsiklis

April 2000 IEEE/ACM Transactions on Networking (TON), Volume 8 Issue 2

Publisher: IEEE Press

 Full text available: [pdf\(339.88 KB\)](#) [Additional Information: full citation, references, cited by, index terms](#)

Keywords: Internet economics, dynamic programming, loss networks, revenue management

### 2 [That one there! Pointing to establish device identity](#)

Colin Swindells, Kori M. Inkpen, John C. Dill, Melanie Tory

October 2002 UIST '02: Proceedings of the 15th annual ACM symposium on User interface software and technology

Publisher: ACM

[Additional Information: full citation,](#)

 Full text available: [pdf\(265.92 KB\)](#) [wmv\(216.00 bytes\)](#) [mov\(216.00 bytes\)](#)
[abstract,](#)  
[references,](#)  
[cited by, index](#)  
[terms](#)

Computing devices within current work and play environments are relatively static. As the number of 'networked' devices grows, and as people and their devices become more dynamic, situations will commonly arise where users will wish to use 'that device ...

Keywords: PDA, gesturePen, gesturing, handheld computer, identification, infrared (IR) tag, pointing

### 3 [Congestion control for high bandwidth-delay product networks](#)

Dina Katabi, Mark Handley, Charlie Rohrs

October 2002 ACM SIGCOMM Computer Communication Review, Volume 32 Issue 4

Publisher: ACM

 Full text available: [pdf\(543.64 KB\)](#) [Additional Information: full citation, abstract, references, cited by, index terms](#)

Theory and experiments show that as the per-flow product of bandwidth and latency increases, TCP becomes inefficient and prone to instability, regardless of the queuing scheme. This failing becomes increasingly important as the Internet evolves to incorporate ...

Keywords: congestion control, high-speed networks, large bandwidth-delay product

4 [A distributed algorithm of delay-bounded multicast routing for multimedia applications in wide area networks](#)

Xiaohua Jia

December 1998 IEEE/ ACM Transactions on Networking (TON), Volume 6 Issue 6

Publisher: IEEE Press

Full text available:  pdf(245.47 KB)

Additional Information: full citation, references, cited by, index terms

Keywords: delay-bounded multicast, distributed routing algorithm, multicast routing, multimedia systems, real-time communications

5 [Router plugins: a software architecture for next-generation routers](#)

Dan Decasper, Zubin Dittia, Guru Parulkar, Bernhard Plattner

February 2000 IEEE/ ACM Transactions on Networking (TON), Volume 8 Issue 1

Publisher: IEEE Press

Full text available:  pdf(530.34 KB)

Additional Information: full citation, references, cited by, index terms

Keywords: communication system routing, communication system security, internet, modular computer systems

6 [Service engineering for core optical networks](#)



Lance C. Hassan, Joseph R. Bumblis

October 2003 CI TC4 '03: Proceedings of the 4th conference on Information technology curriculum

Publisher: ACM

Full text available:  pdf(481.74 KB)

Additional Information: full citation, abstract, references, index terms

This article represents a network engineering primer for the next-generation Internet. The authors consider the impact of optical networks in conjunction with Quality of Service (QoS) parameters currently proposed and in use within the public Internet. ...

Keywords: automatically switched optical networks (ASON), automatically switched transport networks (ASTN), convergence, inverse multiplexing, multiprotocol label switching (MPLS), multiprotocol lambda switching (MP $\lambda$ S), quality of service (QoS), service provisioning, traffic engineering, wavelength division multiplexing (WDM)

7 [Network pointers](#)



Christian Tschudin, Richard Gold

January 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 1

Publisher: ACM

Full text available:  pdf(270.95 KB)

Additional Information: full citation, abstract, references, cited by, index terms

The Internet architecture can be characterized as having a rather coarse grained and imperative style of network packet handling: confronted with an IP packet and its source and destination addresses, the infrastructure almost blindly and unalterably ...

8 [Efficient routing in optical networks](#)

Alok Aggarwal, Amotz Bar-Noy, Don Coppersmith, Rajiv Ramaswami, Baruch Schieber, Madhu



Sudan

November 1996 Journal of the ACM (JACM), Volume 43 Issue 6

Publisher: ACM

Full text available: [pdf\(559.18 KB\)](#)

Additional Information: full citation, abstract, references, cited by, index terms, review

This paper studies the problem of dedicating routes to connections in optical networks. In optical networks, the vast bandwidth available in an optical fiber is utilized by partitioning it into several channels, each at a different optical wavelength. ...

Keywords: optical networks, routing, wavelength assignment

## 9 [Link layer-based TCP optimisation for disconnecting networks](#)



James Scott, Glenford Mapp

October 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 5

Publisher: ACM

Full text available: [pdf\(368.01 KB\)](#)

Additional Information: full citation, abstract, references, cited by

This paper discusses a link layer approach to improving TCP performance in the face of periodic network disconnections. Network disconnections are encountered in many scenarios, including being out-of-range in a wireless network, during network handoff, ...

Keywords: TCP, disconnection, link layer, mobile networking

## 10 [Poly-logarithmic deterministic fully-dynamic algorithms for connectivity, minimum spanning tree, 2-edge, and biconnectivity](#)



Jacob Holm, Kristian de Lichtenberg, Mikkel Thorup

July 2001 Journal of the ACM (JACM), Volume 48 Issue 4

Publisher: ACM

Full text available: [pdf\(378.20 KB\)](#)

Additional Information: full citation, abstract, references, cited by, index terms

Deterministic fully dynamic graph algorithms are presented for connectivity, minimum spanning tree, 2-edge connectivity, and biconnectivity. Assuming that we start with no edges in a graph with  $n$  vertices, the amortized operation costs are  $O(\log^2 \dots)$

Keywords: 2-edge connectivity, Biconnectivity, connectivity, dynamic graph algorithms, minimum spanning tree

## 11 [Congestion control for high bandwidth-delay product networks](#)



Dina Katabi, Mark Handley, Charlie Rohrs

August 2002 SIGCOMM '02: Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM








Full text available: [pdf\(543.64 KB\)](#)

Additional Information: full citation, abstract, references, cited by, index terms

Theory and experiments show that as the per-flow product of bandwidth and latency increases, TCP becomes inefficient and prone to instability, regardless of the queuing scheme. This failing becomes increasingly important as the Internet evolves to incorporate ...

Keywords: congestion control, high-speed networks, large bandwidth-delay product

## 12 [Communications networks for the force XXI digitized battlefield](#)

-  Paul Sass  
October 1999 *Mobile Networks and Applications*, Volume 4 Issue 3  
Publisher: ACM  
Full text available:  pdf(745.29 KB) Additional Information: full citation, abstract, references, cited by, index terms  
In striving to meet the increasing demands for timely delivery of multimedia information to the warfighter of the 21st Century, the US Army is undergoing a gradual evolution from its "legacy" communications networks to a flexible internetwork ...
- 13 [Provisioning a virtual private network: a network design problem for multicommodity flow](#)  
 Anupam Gupta, Jon Kleinberg, Amit Kumar, Rajeev Rastogi, Bulent Yener  
July 2001 STOC '01: Proceedings of the thirty-third annual ACM symposium on Theory of computing  
Publisher: ACM  
Full text available:  pdf(206.92 KB) Additional Information: full citation, abstract, references, cited by, index terms  
Consider a setting in which a group of nodes, situated in a large underlying network, wishes to reserve bandwidth on which to support communication. Virtual private networks (VPNs) are services that support such a construct; rather than ...
- 14 [Ad-hoc networks beyond unit disk graphs](#)  
 Fabian Kuhn, Aaron Zollinger  
September 2003 DI ALM-POMC '03: Proceedings of the 2003 joint workshop on Foundations of mobile computing  
Publisher: ACM  
Full text available:  pdf(219.30 KB) Additional Information: full citation, abstract, references, cited by, index terms  
In this paper we study a model for ad-hoc networks close enough to reality as to represent existing networks, being at the same time concise enough to promote strong theoretical results. The Quasi Unit Disk Graph model contains all edges shorter than ...  
Keyw ords: ad-hoc networks, face routing, flooding, geometric routing, mobile computing, modeling, unit disk graphs, wireless communication
- 15 [Fixed-alternate routing and wavelength conversion in wavelength-routed optical networks](#)  
Ramu Ramamurthy, Biswanath Mukherjee  
June 2002 IEEE/ ACM Transactions on Networking (TON), Volume 10 Issue 3  
Publisher: IEEE Press  
Full text available:  pdf(461.95 KB) Additional Information: full citation, abstract, references, cited by, index terms  
Consider an optical network which employs wavelength-routing crossconnects that enable the establishment of wavelength-division-multiplexed (WDM) connections between node pairs. In such a network, when there is no wavelength conversion, a connection ...  
Keyw ords: WDM, adaptive routing, alternate routing, lightpath, optical network, wavelength conversion, wavelength routing
- 16 [On the distribution of routing computation in hierarchical ATM networks](#)  
Eyal Felstaine, Reuven Cohen  
December 1999 IEEE/ ACM Transactions on Networking (TON), Volume 7 Issue 6

Publisher: IEEE Press

Full text available:  pdf(227.81 KB)

Additional Information: full citation, references, index terms

Keywords: ATM, NIMROD, PNNI, hierarchical routing, load balancing

### 17 [Dynamic task-based anycasting in mobile ad hoc networks](#)

Prithwish Basu, Wang Ke, Thomas D. C. Little

October 2003 Mobile Networks and Applications. Volume 8 Issue 5

Publisher: Kluwer Academic Publishers


Full text available:  pdf(518.68 KB)

Additional Information: full citation, abstract, references, index terms

Mobile ad hoc networks (MANETs) have received significant attention in the recent past owing to the proliferation in the numbers of tetherless portable devices, and rapid growth in popularity of wireless networking. Most of the MANET research community ...


Keywords: anycasting, device/service discovery, distributed application execution, mobile ad hoc networks, task graphs

### 18 [Reputation and social network analysis in multi-agent systems](#)

 Jordi Sabater, Carles Sierra

July 2002 AAMAS '02: Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 1


Publisher: ACM

Full text available:  pdf(236.42 KB)

Additional Information: full citation, abstract, references, cited by, index terms


The use of previous direct interactions is probably the best way to calculate a reputation but, unfortunately this information is not always available. This is especially true in large multi-agent systems where interaction is scarce. In this paper we ...

### 19 [Optimal delivery of multi-media content over networks](#)

 Arthur Allen

October 2001 MULTIMEDIA '01: Proceedings of the ninth ACM international conference on Multimedia

Publisher: ACM


Full text available:  pdf(4.39 MB)

Additional Information: full citation, abstract, references, cited by, index terms

In this paper, we describe scalable optimal methods for delivering archived and live multi-media content from servers to multi-media client players endowed with substantial RAM or disk-based buffers. These methods result from the application of linear optimization ...

Keywords: CAC, CBR, QOS, VBR bandwidth smoothing, ad insertion, edge-caching, linear programming, live events, optimization, video-on-Demand

### 20 [A dynamic network architecture](#)

 Sean W. O'Malley, Larry L. Peterson

May 1992 ACM Transactions on Computer Systems (TOCS). Volume 10 Issue 2

Publisher: ACM

Full text available:  pdf(401.43 KB)

Additional Information: full citation, abstract, references, cited by, index terms, review

Network software is a critical component of any distributed system. Because of its complexity,

network software is commonly layered into a hierarchy of protocols, or more generally, into a protocol graph. Typical protocol graphs—including ...

**Keywords:** composibility, dynamic configuration, reuse

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